

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Carolina Alonso

GENERAL INFORMATION:

Name:	Arkema Inc.
Address:	4444 Industrial Parkway; P.O. Box 187 Calvert City, Kentucky 42029
Date application received:	December 14, 1998
SIC/Source description:	2819/ SOCMI
Source I. D.	021-157-00007
Source A.I.	2918
Activity number:	APE20040007
Permit number:	V-03-015

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants): Ozone

**EMISSIONS SUMMARY:**

Pollutant	Actual (tpy) *	Potential (tpy)
PM/PM <sub>10</sub>	29.87	106.3
SO <sub>2</sub>	1.11	661.66
NO <sub>x</sub>	56.92	351.44
CO	65.81	881.29
VOC	131.51	4239.1
ODS	245.18	3864.62
Single HAPs > 10 tpy Cl <sub>2</sub>	4.65	3232.81
Single HAPs > 10 tpy HCl	8.64	1258.40
Single HAPs > 10 tpy HF	2.71	1062.12
Source wide HAPs	21.84	5563.22

\* Actual emissions are from 2004 Emission Survey (TEMPO)

**SOURCE PROCESS DESCRIPTION:**

Arkema Inc, Calvert City, is a specialty chemical manufacturing plant. Arkema produces Kynar Monomer, Kynar Polymer, F-141b, F-142 b, and F-134a. Arkema also produces HCl as a by-product. For the purpose of Title V permitting, this facility is split into different areas. The areas are as follows:

1. Boiler area
2. Monomer plant
3. Polymer plant
4. K-97 plant / F-140s process
5. K-98 plant
6. F-134a plant
7. K-97 plant / F-32 process
8. Logistics, packaging, and loading
9. Hazardous waste incinerator
10. Remediation

**COMMENTS:**

The original Title V application was submitted in December 1998, and several permits have been issued to the facility since then. A revised updated Title V permit application, log number 50710, was submitted on October 10, 2002. Some emission points are subject to 401 KAR 51:017, Prevention of significant deterioration of air quality (PSD) for Ozone Depleting Substances (ODS), which includes BACT limits. For other emission points, the source has elected to accept limits in order to preclude the applicability of PSD for Ozone Depleting Substances (ODS) and Volatile Organic Compounds (VOC).